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## FOREWORD

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### Special Section on Recent Progress in Antennas and Propagation in Conjunction with Main Topics of ISAP2020

Despite difficulties presented by the COVID-19 pandemic, the 2020 International Symposium on Antennas and Propagation (ISAP2020), the 25th ISAP, sponsored by the Communication Society of the IEICE and held online organized by Japanese AP committee members, on January 25 to 28, 2020 was a great success. This symposium provided an international forum for exchanging information on recent progress of research and development in antennas, propagation, electromagnetic wave theory, and the related fields. For this symposium, 445 technical papers were submitted from 33 countries and regions, and 432 papers were accepted after the review process by the ISAP2020 Technical Program Committee. 428 papers were presented and 563 people attended the symposium from 36 countries and regions. The objective of this Special Section is to discuss the antenna and propagation technologies including progressing technologies for 5G mobile communication systems, MIMO, PAN/BAN, and wireless power transmission and so on.

This special section includes submissions particularly from, but not limited to, the authors of ISAP2020. For this section, 13 papers from 4 countries and regions were submitted. After careful review, 10 papers were accepted. Furthermore, this section includes 3 invited papers on THz propagation, transient analysis of human body, millimeter-wave antenna for 5G systems. I hope that this special section will encourage researchers and will promote future research activities in the relevant fields of study. I am grateful to the IEICE Communication Society for deciding to publish this special section and for their continuous support.

Finally, I would like to express my sincere gratitude to all the authors for their excellent submissions, and to the reviewers and editorial committee members for their tremendous efforts to make this special section a success in the face of a historic crisis.

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Hiroyoshi Yamada, Guest Editor-in-Chief

**Hiroyoshi Yamada** (*Fellow*) received the B.E., M.E., and Dr. Eng. degrees in electronic engineering from Hokkaido University, Sapporo, Japan, in 1988, 1990, and 1993, respectively. Since 1993, he has been with the Faculty of Engineering, Niigata University, Niigata, Japan, where he is currently a Professor. From 2000 to 2001, he was a Visiting Scientist at the Jet Propulsion Laboratory, California Institute of Technology, Pasadena. Dr. Yamada was the Chair of the IEEE Antennas and Propagation Society, Japan Chapter from 2013 to 2014, and the IEEE Geoscience and Remote Sensing Society All Japan Joint Chapter from 2018 to 2019, respectively. He served as the Editor-in-Chief of the IEICE Communications Express from 2014 to 2016. He was the recipient of the Best Paper Award and Kiyasu Zenichi Award of the IEICE in 2010. He received the best tutorial paper award from the IEICE Communications Society in 2010 and 2019, respectively. His research interests include array signal processing, polarimetric radar interferometry, MIMO radar, and high-resolution DOA estimation techniques. Dr. Yamada is a member of IEEE.

